

SEQUENCE LISTING

<110> Okano, Shinji  
Yonemitsu, Yoshikazu  
Sueishi, Katsuo  
Shibata, Satoko  
Hasegawa, Mamoru

<120> Method for Producing Gene Transferred Dendritic Cells

<130> 50026/058001

<140> US 10/578,085  
<141> 2006-05-03

<150> PCT/JP2004/016089  
<151> 2004-10-29

<150> JP 2004-187028  
<151> 2004-06-24

<150> JP 2003-374808  
<151> 2003-11-04

<160> 15

<170> PatentIn version 3.3

<210> 1  
<211> 10  
<212> DNA  
<213> Artificial

<220>  
<223> artificially synthesized sequence

<400> 1  
ctttcaccct 10

<210> 2  
<211> 15  
<212> DNA  
<213> Artificial

<220>  
<223> artificially synthesized sequence

<400> 2  
tttttcttac tacgg 15

<210> 3  
<211> 18  
<212> DNA  
<213> Artificial

```

<220>
<223> artificially synthesized sequence

<400> 3
cgccgcaga tcttcacg 18

<210> 4
<211> 18
<212> DNA
<213> Artificial

<220>
<223> artificially synthesized sequence

<400> 4
atgcatgccg gcagatga 18

<210> 5
<211> 18
<212> DNA
<213> Artificial

<220>
<223> artificially synthesized sequence

<400> 5
gttgagtaact gcaagagc 18

<210> 6
<211> 42
<212> DNA
<213> Artificial

<220>
<223> artificially synthesized sequence

<400> 6
tttgccggca tgcatgttc ccaagggag agtttgcaa cc 42

<210> 7
<211> 18
<212> DNA
<213> Artificial

<220>
<223> artificially synthesized sequence

<400> 7
atgcatgccg gcagatga 18

<210> 8
<211> 21

```

<212> DNA  
<213> Artificial  
  
<220>  
<223> artificially synthesized sequence  
  
<400> 8  
tgggtgaatg agagaatcag c

21

<210> 9  
<211> 10  
<212> PRT  
<213> Artificial  
  
<220>  
<223> an artificially synthesized peptide  
  
<400> 9

Glu Ala Ala Gly Ile Gly Ile Leu Thr Val  
1 5 10

<210> 10  
<211> 10  
<212> PRT  
<213> Artificial  
  
<220>  
<223> an artificially synthesized peptide  
  
<400> 10

Glu Leu Ala Gly Ile Gly Ile Leu Thr Val  
1 5 10

<210> 11  
<211> 9  
<212> PRT  
<213> Artificial  
  
<220>  
<223> an artificially synthesized peptide  
  
<400> 11

Gly Ile Leu Gly Phe Val Phe Thr Leu  
1 5

<210> 12  
<211> 561  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1)..(561)

<220>  
<221> sig\_peptide  
<222> (1)..(21)

<400> 12  
atg acc aac aag tgt ctc ctc caa att gct ctc ctg ttg tgc ttc tcc 48  
Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu Leu Cys Phe Ser  
1 5 10 15  
  
act aca gct ctt tcc atg agc tac aac ttg ctt gga ttc cta caa aga 96  
Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg  
20 25 30  
  
agc agc aat ttt cag tgt cag aag ctc ctg tgg caa ttg aat ggg agg 144  
Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg  
35 40 45  
  
ctt gaa tat tgc ctc aag gac agg atg aac ttt gac atc cct gag gag 192  
Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu  
50 55 60  
  
att aag cag ctg cag cag ttc cag aag gag gac gcc gca ttg acc atc 240  
Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile  
65 70 75 80  
  
tat gag atg ctc cag aac atc ttt gct att ttc aga caa gat tca tct 288  
Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser  
85 90 95  
  
agc act ggc tgg aat gag act att gtt gag aac ctc ctg gct aat gtc 336  
Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val  
100 105 110  
  
tat cat cag ata aac cat ctg aag aca gtc ctg gaa gaa aaa ctg gag 384  
Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu  
115 120 125  
  
aaa gaa gat ttt acc agg gga aaa ctc atg agc agt ctg cac ctg aaa 432  
Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys  
130 135 140  
  
aga tat tat ggg agg att ctg cat tac ctg aag gcc aag gag tac agt 480  
Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser  
145 150 155 160  
  
cac tgt gcc tgg acc ata gtc aga gtg gaa atc cta agg aac ttt tac 528  
His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr  
165 170 175  
  
ttc att aac aga ctt aca ggt tac ctc cga aac 561  
Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn  
180 185

<210> 13  
<211> 187  
<212> PRT  
<213> Homo sapiens

<400> 13

Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu Leu Cys Phe Ser  
1 5 10 15

Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg  
20 25 30

Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg  
35 40 45

Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu  
50 55 60

Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile  
65 70 75 80

Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser  
85 90 95

Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val  
100 105 110

Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu  
115 120 125

Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys  
130 135 140

Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser  
145 150 155 160

His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr  
165 170 175

Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn  
180 185

<210> 14  
 <211> 546  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> CDS  
 <222> (1)..(546)

<220>  
 <221> sig\_peptide  
 <222> (1)..(21)

<400> 14

atg aac aac agg tgg atc ctc cac gct gcg ttc ctg ctg tgc ttc tcc	48
Met Asn Asn Arg Trp Ile Leu His Ala Ala Phe Leu Leu Cys Phe Ser	
1 5 10 15	

acc aca gcc ctc tcc atc aac tat aag cag ctc cag ctc caa gaa agg	96
Thr Thr Ala Leu Ser Ile Asn Tyr Lys Gln Leu Gln Leu Glu Arg	
20 25 30	

acg aac att cgg aaa tgt cag gag ctc ctg gag cag ctg aat gga aag	144
Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys	
35 40 45	

atc aac ctc acc tac agg gcg gac ttc aag atc cct atg gag atg acg	192
Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr	
50 55 60	

gag aag atg cag aag agt tac act gcc ttt gcc atc caa gag atg ctc	240
Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu	
65 70 75 80	

cag aat gtc ttt ctt gtc ttc aga aac aat ttc tcc agc act ggg tgg	288
Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp	
85 90 95	

aat gag act att gtt gta cgt ctc ctg gat gaa ctc cac cag cag aca	336
Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr	
100 105 110	

gtg ttt ctg aag aca gta cta gag gaa aag caa gag gaa aga ttg acg	384
Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu Thr	
115 120 125	

tgg gag atg tcc tca act gct ctc cac ttg aag agc tat tac tgg agg	432
Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg	
130 135 140	

gtg caa agg tac ctt aaa ctc atg aag tac aac agc tac gcc tgg atg	480
Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met	
145 150 155 160	

gtg gtc cga gca gag atc ttc agg aac ttt ctc atc att cga aga ctt	528
Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu	

165

170

175

acc aga aac ttc caa aac  
Thr Arg Asn Phe Gln Asn  
180

546

<210> 15  
<211> 182  
<212> PRT  
<213> Mus musculus

<400> 15

Met Asn Asn Arg Trp Ile Leu His Ala Ala Phe Leu Leu Cys Phe Ser  
1 5 10 15

Thr Thr Ala Leu Ser Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu Arg  
20 25 30

Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys  
35 40 45

Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr  
50 55 60

Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu  
65 70 75 80

Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp  
85 90 95

Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr  
100 105 110

Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu Thr  
115 120 125

Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg  
130 135 140

Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met  
145 150 155 160

Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu  
165 170 175

Thr Arg Asn Phe Gln Asn  
180